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DECLASS REVIEW by NIMA/DOD

TCS-9289-65
4 August 1965
Copy 14

MEMORANDUM FOR: Chairman, Deployment Working Group, GMAIC
SUBJECT: Request for Graphics, Mensuration and Description
of Selected Sites at Tyuratam Missile Test
Center, USSR
REFERENCE: GMAIC Requirement 8-6
(NPIC Project 11031-6)

1. This memorandum is in response to your requirement which requests graphics, mensuration, and descriptions of selected sites at the Tyuratam Missile Test Center, USSR.

2. For items A and B under specific requirements, vu-graphs of line drawings and artists concepts; descriptions, and mensuration have been provided for Launch Areas A3, B2, G8-G9; Complex I; Launch Area K3, and Launch Site L1.

Vu-graphs of line drawings, descriptions and mensuration have been provided for launch pads A2/A4, and launch sites L2 through L10. An artist's concept was not provided for launch pads A2/A4 because lack of stereo coverage [redacted] precluded a meaningful presentation.

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Only an artist's concept of Launch Area G7 was prepared, as lack of significant change in the area renders the existing line drawings and vu-graph still applicable. Existing graphics are NPIC/K 1008 4/65 and TCS-86158/65.

No new graphics have been provided for Launch Areas B3, G1-G2, G3-G4, G5-G6, and K1-K2. Existing graphics indicated below are still applicable for these launch areas. All are NPIC file numbers.

Launch Area	Line Drawing	Vu-Graph	Artist's Concept	Vu-Graph
B-3		TCS 86156/65	K-1035(4/65)	TCS 86149/65
G1-G2	J-8039(1-65)	TCS 86159/65	K-1036(4/65)	TCS 86141/65
G3-G4	J-8041(1-65)	TCS 86154/65	K-1037(4/65)	TCS 86144/65
G5-G6	K-1039(4-65)	TCS 86157/65	K-1039(4/65)	TCS-86143/65
K1-K2	K-1009(4-65)	TCS 86153/65	J-8053(1/65)	TCS-86146/65

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3. Each section of the accompanying enclosures is keyed by a letter which corresponds to an item of the specific requirement.

4. Specific requirement (e) has not been completely satisfied. The scope of this requirement demands considerably more examination and analysis than time permitted on this project. The requirement will be satisfied by continued work and published in another report.

5. This project is considered complete.

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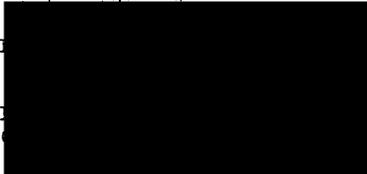

Assistant for Photographic Analysis, NPIC

Enclosures:

- 3 Specific Requirements A-J
- 19 vu-graphs (with copies 1-8 only) (under separate cover)

Distribution:

- 1-2-TCO/Army
- 3-TCO/DIA
- 4-TCS/Army
- 5-TCO/NAVY
- 6-TCO/Air
- 7-TCO/DDI
- 8-TCO/NSA
- 9-DIR/NPIC
- 10-PAG/NPIC
- 11-IPO/PAG
- 12-S&TD/PAG
- 13-CIA/IAD/NPIC (w/enc)
- 14-CSD/NPIC (w/enc)
- 15-CS/NPIC
- 16-DIAXX-1
- 17-NSA/LO/NPIC
- 18-ENIE-2A
- 19-SPNAV 922Y3
- 20-Army/SPAD
- 21-DIAXX-3A (w/enc)
- 22-DIAXX-3C (w/enc)


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SPECIFIC REQUIREMENT A

No significant change has occurred at Launch Areas B3, G1-G2, G3-G4, G5-G6, G7, and K1-K2 since preparation of graphics and text provided for CMAIC requirement 10-65 (NPIC Project 11120-7). Revised descriptions of remainder of launch areas specified follow.

Launch Areas A3 (15), B2 (16), and Complex I (14)

Launch areas A3, B2, and Complex I contain completed single silo launch sites. Physical characteristics observed at these silos during construction indicate that they are Type III c launch sites. The configuration presented by them is probably the signature of deployed Type III c sites. The external appearance of all three silos is similar if not identical to the silos at type III A sites, but two differences in the vicinity of the silo have been noted. A structure, approximately [REDACTED] is located adjacent to the 25X1D silos on their SW sides, and an unidentified linear trace/track extends N from the right (E) side of the silo doors. Access to the silos is from the N side at all three sites. A L-shaped electronic facility and control building is located at Complex I, and ditching, probably for cables, was observed extending to launch areas A3 and B2. A3 is located approximately 3.7 nm WSW, and B2 6.5 nm ENE of Complex I.

Launch Area A3 (15)

Launch Area A3 is enclosed by a generally square triple security fence measuring approximately 1600 by 1400 ft. An access road to the silo enters the area on its N side and terminates in a loop having an irregularly shaped concrete apron on its SE side. The silo is located in the approximate center

is located adjacent to the silo on its SW side, and an unidentified linear trace/track extends N from the right (E) side of the silo door for approximately 160 ft. The silo door is approximately [REDACTED] but the silo aperture could not be seen well enough to measure. Two small rectangular structures are adjacent to the silo opening on the N side. These images were too poor to measure. An earthen mound is contiguous to the loop road N of the silo. Two buildings 110 by 30, and 75 by 45 ft are located outside of the security fence on the E side of the site. The former probable cable ditch to Complex I passes between these buildings. An excavation was formerly located W of the silo, midway between it and the security fence. The 150 by 40 ft building on the right (W) side of the access road is connected to the road by walkways. A short roadway on the S side of the building extends W to a small structure and the rear of the building.

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Launch Area B2 (16)

Launch Area B2 is enclosed by a double security fence approximately 1600 ft square. An access road to the silo enters the area on its E side and terminates in a loop having an irregularly shaped concrete apron on its SW side. The silo is located at the SE corner of the apron. The silo door measures approximately [REDACTED] and the diameter of the aperture of the silo is approximately [REDACTED]. A structure approximately [REDACTED] is located adjacent to the silo on its SW side, and an unidentified linear trace/track extends N from the right (E) side of the silo for approximately 190 ft. Two indistinct small rectangular structures are adjacent to the silo on the N side. These measure approximately [REDACTED]. An earthen mound with a tower on its top is located within the loop road. A material, possibly netting or matting, is lying on the mound. Also within the loop road is a

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walkway or narrow roadway, which appears to enter a possible underground entrance near the N end of the apron. An earth-mounded structure with a walkway access from the loop road is located E of the silo on the S side of the access road, and an earthen mound which gradually dissipates into a ground scar, extends from the buried structure to a small unidentified object near the eastern security fence. A branch from the access road traverses the southern half of the area, and terminates at a hardstand. A possible underground structure is near the end of the road and vehicle parks are located along it. An earth-mounded structure is located south of this road near the southern fence. A secured unidentified structure approximately [REDACTED] is positioned approximately 50 ft SE, and another 150 ft NW of the silo. The 150 by 40 ft building on the right (W) side of the access road is connected to the road by walkways, and a short roadway on the W side of the building extends to a small structure and to the rear of the building. Two buildings, approximately 100 by 30 ft, and 80 by 35 ft are located outside of the security fence on the E side of the launch area. The former probable cable ditch to Complex I extends SW from the launch area.

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Launch Complex I (14)

Launch Complex I is enclosed by a generally triangular shaped double security fence. The overall dimensions are approximately 500 by 2100 ft.

An access road enters the complex on its W side and terminates in a loop road. A parking hardstand is contiguous to the loop road on the NW side of the loop, and the E side of the loop widens out into a concrete apron containing the launch silo. The silo door is approximately [REDACTED] and has two small rectangular structures, approximately [REDACTED] adjacent to it on its N side. A structure approximately [REDACTED] is located adjacent to the silo on its SW side, and an unidentified linear trace/track extends N from the right (E) side of the silo door for approximately 100 ft. A building

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approximately 80 by 20 ft is located 150 ft E of the silo, and an unidentified circular concrete basin or tank is located 310 ft SSW of the silo. The circular basin or tank has an inside and outside diameter of approximately 30 and 60 ft respectively. A possible object is in the center of the basin. Two square images are located 300 ft S of the basin. Their texture and tone appear to be similar to the possible netting/matting observed on the earth mound within the loop road at launch area B2. An earth-mounded structure with a walkway access from the road is located on the S side of the loop road. A control building is located approximately 400 ft SSE of the silo. The building is 150 by 100 ft and has a raised [REDACTED] entrance on its NW side. An antenna 25X1D silo is adjacent to the control building on its SE side. The legs of an L-shaped electronic facility extend [REDACTED] to smaller antenna silos 25X1D located 1350 and 1340 ft respectively from the antenna silo beside the control building. Two unidentified structures are located along the NE leg and three along the SE leg, but they are not evenly spaced nor do they fall on a line connecting the antenna silos. Three buildings are located outside of the security fence on a W side of the complex: one is approximately 95 by 25 ft, one approximately 70 by 40 ft, and the third is approximately 30 by 15 ft. The 150 by 40 ft building on the right (S) side of the access road is connected to the road by walkways. A short road way on the E side of the building extends S to a small structure, and to the rear of the building.

Launch Area C8-C9 (19)

The area contains two launch silos served by a common road which forks to form a loop. On either side of this loop, the roadway widens into a hardstand which contains a launch silo. The aperture of each silo is depressed in a rectangular notch in the hardstand, and is protected by a silo door measuring approximately [REDACTED] which slides in the notch. The silo apertures which measured [REDACTED] in diameter during a mid-stage of construction now measure approximately [REDACTED] in diameter in final form. They are spaced 385 feet apart. Just to the north of each silo and connected to it by a buried conduit is an earth-mounded structure. At silo C8 a probable structure is situated just west of the earth-mounded structure and connected to it by conduit. Photographic quality does not permit the identification of an analogous structure at site C9. Southeast of each silo and just off the edge of the hardstand is an earth mound/earth-mounded structure. At C8 the hardstand widens to form an apron directly in front of the earth mound, but this does not appear to be the case at C9. Along the south side of the loop road are three earth-mounded structures which are connected by closed ditching with each of the launch silos.

A pattern of tall towers, performing an unidentified function but similar in appearance to those seen at other launch areas at Tyuratam, surrounds each of the silos. A number of small nearly square structures are also visible at various points around the loop road.

Just inside the launch area security fence, is a group of three buildings which appear to be identical with those seen in a similar position at launch areas C3-C4 and C5-C6. On the left side of the road is one large building measuring 210 by 50 feet and on the right side of the road is one building measuring 140 by 40 feet with a concrete apron along side it, and another smaller building which measures [REDACTED] feet.

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Just outside the security fence and on the right side of the road is a building with associated stack and a nearby fenced area.

A ditch possibly providing cable connection, has previously been observed connecting launch area G3-G9 with launch area G5-G6.

A

Launch Area K3 (20)

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25X1D This road served secured launch area was first seen in [REDACTED] By [REDACTED] of the same year it appeared to be nearly complete, containing a launch silo and "E" shaped electronic facility with an earth-mounded control building near its apex. A month later, [REDACTED] the earth was removed from the control building and a fairly elaborate program of modification was begun. At the apex of the electronic facility, a concrete arch roof building [REDACTED] long was constructed and earth-mounded, and a rectangular excavation (probable structure foundation) measuring [REDACTED] was dug behind the original control building. This area was almost completely backfilled before the results of this construction activity could be fully observed, but a small portion of this buried structure is visible on [REDACTED]. In the vicinity of the silo, the surface of the access ramp was torn up and some reexcavating around the silo itself was carried out. A probable buried structure measuring [REDACTED] square was added just north of the silo, and a probable underground entrance was added west of the silo.

25X1D Approximately half way between the silo and the security gate a building measuring [REDACTED] with a low extension was added and earth-mounded. At one point, a ditch was opened, connecting the silo area, the earth-mounded building with low extension, and the general area of the control facility. Three tall towers are positioned around the launch silo and two other small structures have been added in the area west of the access road.

SPECIFIC REQUIREMENT B

Launch Pads A2/A4

25X1D

Launch pad A2, first seen in [REDACTED] has remained essentially unchanged, with minor exceptions, for almost two years. Activity in the A4 pad area is first identifiable in [REDACTED]. This pad area now 25X1D consists of a rail-served concrete hardstand, an earth-mounded, concrete, arch-roof building, a possible buried structure, a probable earth-mounded structure, and an earth mound/earth-mounded structure.

25X1D An object of generally circular configuration, measuring approximately

[REDACTED] visible on the hardstand at A4 appears very much like a similar object measuring approximately [REDACTED] in diameter on pad A2. 25X1D

The distance between these two objects is [REDACTED]. A sump, connected by closed ditching to pad A4, is located approximately 600 feet to the north-northeast. Just south of pad A4 is an earth-mounded concrete arch roof building which measures 135 by 25 feet, and just south of it is a possible buried structure. On earlier coverage, the possible buried structure appeared as a probable hardstand or foundation measuring 80 by 50 feet. Also visible on earlier coverage was what appeared to be a circular excavation [REDACTED] in 25X1D

diameter. Because of the characteristics of this photography, however, it is not possible to relate this circular excavation to any of the imagery visible on the most recent coverage.

This southernmost rail spur serving pad A2 has been extended eastward, passing through pad A4 and continuing to the east for approximately a thousand feet where it terminates. Approximately 100 feet west of the terminus, it forks to form another spur which extends back through pad A2. A building located at the southern edge of pad A2 has been removed, possibly to make way for the rail extension.

Three towers, approximately 50 feet high, are positioned around the hardstand at A4. Two towers approximately 115 to 120 feet high, and two towers approximately 50 feet high are positioned around A2.

Launch Group L

Launch Group L is located at the west end of the range head, in the vicinity of Launch Complexes F, G, and H. The launch group configuration is similar to those at Obovannaya and Tatishchevo, with 6 sites in a circular pattern around a central site, and 3 additional silos forming a segment of an outer circle. The level accesses to the silos are oriented on an azimuth of approximately [REDACTED] except for launch sites L2 and L3 which are oriented on approximate azimuths of [REDACTED] respectively. Cable ditching extends outward from sites L1 and L4 to the perimeter sites, and between perimeter sites, but the pattern is incomplete. The cable ditching is difficult to identify and follow because of the extensive track activity in the area. The cable ditching depicted on the va-graph showing the layout of Launch Group L should be considered with caution.

Launch Site L1 (29)

Launch site L1, the central launch site and control facility for launch group L, was first seen in [REDACTED]. It presently consists of a type IIIID launch site and "I" shaped electronic facility under construction. The launch silo is located near the center of a short, raised, earthen platform which is road-served. The silo, which measures [REDACTED] in diameter, appears to be completely backfilled, and three rail-like objects oriented approximately at right angles to the access road can be seen on the west side of the silo. Just west of the southern end of the earthen platform an earth mound or possible earth-mounded structure is located.

At the extremities of the legs of the "E"-shaped electronic facility, antenna silos are under construction. The silo structures measure 20' x 10' and construction activity immediately south of each may be associated with the silo door apparatus.

In an excavation at the apex of the "E"-shaped electronic facility is one building measuring 40 by 20 ft and another under construction measuring 45 by 40 ft. A concrete arch-roof building measuring [REDACTED] is located along the southern edge of the excavation. Five cylindrical objects measuring [REDACTED] can be seen lying on the ground approximately half way between the apex and the northern antenna silo.

Situated along the west side of the side road, just inside the security gate, is a group of three buildings connected by ditching. The largest of these measures [REDACTED], and the smallest measures [REDACTED].

Launch Site L-2 (27)

Launch Site L-2 is located 3.1 km NNE of site L-1. The site is enclosed by an irregularly shaped double security fence and contains a generally T-shaped mounded earth level access to a silo. The silo is circular, approximately [REDACTED] in diameter, and is located in the leg of the access oriented on an approximate azimuth of [REDACTED]. The silo is back-filled except for a shallow excavation on its NE side. A small unidentified structure is adjacent to the level access approximately 120 feet SE of the silo, and a small excavation is located approximately 100 feet W of the silo. An earth-mounded probable building is located beside the access road at the entrance into the site.

Launch Site L-3 (22)

25X1D Launch Site L-3 is located 4.5 nm ENE of site L-1. The site is enclosed by an irregularly shaped triple security fence, and contains a T-shaped mounded earth level access to a silo. The silo is circular, approximately [REDACTED] in diameter and is located in the leg of the access oriented on an approximate azimuth of 100/260 degrees. The silo is backfilled and is in the approximate center of a paved hardstand measuring approximately 215' x 30 feet. An earth mounded probable building is located beside the access road at the entrance into the site.

Launch Site L-4 (21)

25X1D Launch Site L-4 is located 3.2 nm SSE of site L-1. The site is enclosed by an irregularly shaped triple security fence and contains a T-shaped mounded earth level access to a silo. The silo is circular, approximately [REDACTED] in diameter and is located in the leg of the access oriented on an approximate azimuth of [REDACTED]. The silo is backfilled and is in the approximate center of a paved hardstand measuring approximately 215' by 30' feet. Three unidentified structures are located approximately 220 feet NNE, SSE, and SSW of the silo. These may be bases for future towers.

Launch Site L-5 (25)

25X1D Launch Site L-5 is located 3.9 nm SSW of site L-1. The site is enclosed by an irregularly shaped triple security fence and contains a Y-shaped mounded earth level access to a silo. The silo is circular, approximately [REDACTED] in diameter, and is located in the leg of the access oriented on an approximate azimuth of 000/180 degrees. The silo is backfilled and paving is in progress adjacent to the silo.

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A building [REDACTED] is located SSE of the silo and three small unidentified structures adjacent to the W end of the mounded earth access form a triangle. These may be bases for future towers.

Launch Site L-6 (26)

25X1D Launch Site L-6 is located 4.2 nm SW of site L-1. The site is enclosed by an irregularly shaped triple security fence, and contains a V-shaped mounded earth level access to a silo. The silo is circular, approximately [REDACTED] in diameter, and is located in the leg of the level access oriented 25X1D on an approximate azimuth of [REDACTED]. The silo is backfilled and is in the approximate center of a hardstand measuring approximately 220 by 30 feet. Paving may be complete on the southern half of the hardstand. A building approximately [REDACTED] feet is located approximately 100 feet NE 25X1D of the silo. Three small unidentified structures are located approximately 150 feet ESE, 300 feet SSE, and 210 feet WSW of the silo, forming a triangle over the N/S mounded earth access. These may be bases for towers. An earth mounded probable building is located beside the access road at the entrance to the site.

Launch Area L-7 (30)

25X1D Launch Area L-7 is located 3.2 nm NW of site L-1. The site is probably enclosed by an irregularly shaped double security fence but its complete pattern cannot be identified. The site consists of a generally T-shaped mounded earth level access to a silo. The silo is circular and has an outside diameter 25X1D of approximately [REDACTED] and an inside diameter of approximately [REDACTED]. The 25X1D silo is located in the leg of the access oriented on an approximate azimuth 25X1D of [REDACTED].

The silo is not backfilled and shallow excavations are nearby on its W side. An earth mounded probable building is located approximately 600 feet SW of the silo.

Launch Site L-8 (29)

Launch Site L-8 is located 0.4 nm SSE of site L-1. The site is probably enclosed by an irregularly shaped double security fence but its complete pattern cannot be identified. The site consists of a generally Y-shaped mounded earth level access to a silo. The silo is circular, approximately [redacted] in diameter, and is located in the leg of the access oriented on an approximate azimuth of 000/110 degrees. The silo is backfilled and is in the approximate center of a paved hardstand measuring approximately 210 by 30 feet. An earth mound is located just W of the silo and a second is beside the access road at the entrance into the site.

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Launch Site L-9 (29)

Launch Site L-9 is located 0.6 nm SE of site L-1. The site is probably enclosed by an irregularly shaped double security fence, but its complete pattern cannot be identified. The site consists of a generally Y-shaped mounded earth level access to a silo. The silo is circular, approximately [redacted] in diameter, and is located in the leg of the level access oriented on an approximate azimuth of 000/150 degrees. The silo is backfilled and is in the approximate center of a paved hardstand measuring approximately 220 by 30 feet. A building approximately [redacted] feet is located 150 feet SE of the silo.

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Launch Site L-10 (24)

Launch Site L-10 is located 6.5 nm SSE of site L-1. The site is probably enclosed by an irregularly shaped double security fence, but its complete pattern cannot be identified. The site consists of a generally E-shaped mounded earth level access to a silo. The silo is circular, approximately [redacted] in diameter, and is located in the leg of the level access oriented on an approximate azimuth of 000/180 degrees. The silo is back-filled and is in the approximate center of a paved hardstand measuring approximately 215 by 30 feet. A building approximately [redacted] is 25X10 located approximately 110 feet SW of the silo. A shallow excavation is on the W side of the silo, and an earth mounded probable building is located beside the access road at the entrance into the site.

25X D

SPECIFIC REQUIREMENT C

Launch Sites K3 & H1 Compared

As far as can be determined at this time, the "L" shaped electronic facility associated with launch area K3, after its modification, is very similar, if not identical, to the one at launch site H1. Each of the facilities has two legs which measure slightly more than 1300 feet long, and at the apex of each facility is a similar group of buildings. This group consists of one smaller building, at or very near the intersection of the two legs, a larger, roughly square building behind it, and a concrete arch roof building adjacent to the other two.

The launch silo at each site is located within a road served raised, earthen platform. Launch area K3 has what appears to be an under ground entrance located west of the silo and a probable buried structure just northwest of the silo. These features are not visible at launch site H1, but this site is in an earlier stage of construction and they may not have been constructed as yet.

Near the entrance at launch site H1 is a group of three buildings connected by ditching. These are not present at launch area K3.

SPECIFIC REQUIREMENT D

The cable ditching connecting the sites of Launch Group L is discussed under specific requirement B. No evidence of association between launch sites west of Complex F has been detected other than those previously reported and discussed on page 10 of the 10th revision of Evaluations of Surface to Surface Missile Deployment.

SPECIFIC REQUIREMENT E

Comparisons of Launch Sites I, A3, B2 and C7, K1-K2

There are no apparent significant differences in appearance of the silos of the group comprised of Complex II, Launch Areas A3, B2, and those of the group comprised of C7, K1-K2. An incomplete examination and comparison of these sites with deployed type III C sites fails to show evidence of association or disassociation with any specific site or group. The exception to this is the non-deployment of a dual silo site such as K1-K2. All of these sites, both deployed and at the range are generally similar, but almost every site has some unique characteristics. Differences and similarities of the two groups at Tyngstam are as follows:

Differences:

- A. Group A3, B2 and I are individual sites.
- B. C7 is an individual site and K1-K2 are a dual site.
- C. A3, B2, C7 and I had no square and rectangular earth mounds adjacent to the silo excavation.
- D. K1 and K2 have square and rectangular earth mounds adjacent to the silo excavations.
- E. Group A3, B2, I have three 150 x 40 ft buildings; one at each side on the right side of the access road.
- F. Group C7, K1-K2 have two 150 x 40 ft buildings; one at C7, and one at K1-K2. These are also on the right side of the access road.
- G. Only site B2 has an earth mound with a tower at its top.
- H. Only I has a circular basin/pond.
- I. Only I has an above ground building near the silo, however, this may be a construction detail.

J. Only B2 has a second road within the site.

K. A, B1, and B2 have earth mounded structures with a walkway access to the loop road. A3 and C7 have possible candidates for this structure but K1 and K2 have not.

Similarities:

A. Outward appearance of all six silos is apparently alike.

B. Approach to the silo at all six sites appears to be on the N side of the silo. This is definitely so at A3, B2, and I. It is probably so at K1-K2, and possible so at C7. Construction is not sufficiently advanced at the latter three sites to be positive.

C. All six silos appear to be generally parallel, but K1-K2 are canted to each other very slightly.

D. The 150 by 40 ft buildings on the right side of the access road are similar if not identical.

E. Each group has one electronic facility for three silos.

F. The control building and electronic facilities are reasonably alike.

G. Each group of three sites are connected by probable cabling.

SPECIFIC REQUIREMENT 7

Comparison of L-shaped Electronic Facilities

The L-shaped electronic facilities at Launch Area K3, after its modification, and at launch site L1 appear to be very similar if not identical. In the apex of the apex at each "L" is a smaller rectangular building at or very near the intersection of the two legs, a larger nearly square building behind it, and a concrete, arch-roof building adjacent to the other two. At launch area K3, the smaller building and the concrete arch-roof building are earth-mounded, and the nearly square building is at least partially, if not entirely buried. Indications are that this will be also the case at launch site L1 when it is completed.

The L-shaped electronic facilities at launch areas G7 and I appear very similar if not identical. In the apex area of each is a square or nearly square building in an excavation and an antenna silo at the point of intersection of the two legs. Backfilling has begun at launch area I around the antenna silo and the building, but is not yet complete. This stage of construction has not yet been reached at launch area G7.

At launch areas D2 and G3/G4, there are certain similarities between the L-shaped electronic facilities. In the apex area of these two electronic facilities, the structures appear to be generally above ground level. At D2, the apex area contains an irregularly shaped earth mound which probably protects one or more structures. Within the right angle formed by the two legs is an earth-mounded, generally cylindrical object in a previously existing excavation. On recent photography, an excavation is apparent behind the irregularly shaped earth-mounded structure(s).

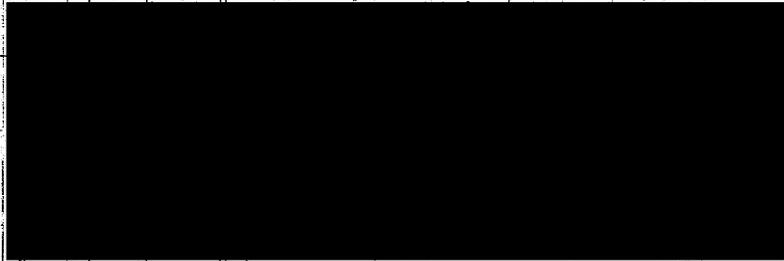
At launch area G3-G4, the structures in the apex area are also generally above ground level. An earth-mounted structure at or very near the intersection of the legs incorporates what appears to be an antenna silo. Two other earth-mounted structures are located in the general apex area to the rear of the leg intersection. As yet, analogous structures have not appeared at D2.

Photographic coverage of the L shaped electronic facilities at launch areas G1-G2 and H has not been good and details of construction at both of these sites are not well understood. There is however, a certain gross similarity between them. Each appears to have an earth mount or earth-mounted structure near the intersection of the two legs and each appears to have a probable hardstand located along the northeast leg, near the apex. Other details of these two facilities are lacking.

Details of leg orientation and lengths of the various electronic facilities is shown in the accompanying table.

Launch Area

D2
G1-G2
G3-G4
H



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SPECIFIC REQUIREMENT 3

A. There is no significant change in the [REDACTED] 25X9 Facility West of Complex C. Information published in WFO/R-845/S, is unchanged.

B. There is no significant change in the area of unidentified construction activity south of the [REDACTED] 25X9 Discussion of this construction on pg. 11 of 18th Roundup of Evaluations of Soviet Surface to Surface Missile Deployment, [REDACTED] 25X1D Part III pg. 13 reflect the [REDACTED]

C. There is no significant change in the Revised Storage Area. Information contained in response [REDACTED] (WFO Project 11120-5) is still current.

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SPECIAL REQUIREMENT X

A comparison of launch sites D1 and D2 shows no significant difference in these sites other than those previously reported.

Specifically:

- A. The electronic facilities only associated with site D2.
- B. The on site REX building at site D2.
- C. The difference in orientation of the site doors with respect to the lobby room.

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SPECIFIC REQUIREMENTS I

footings/foundations. These may be for one large building or a number of smaller ones. The bulk and rock enter the launch area from the SW. The rail ports and a trench extends toward each of the excavations. The railroad on the right, (NE) branch, is still under construction. Spoil from the two excavations has been heaped in two areas on the NE side of the launch site. No security fencing has been identified.

SPECIFIC REQUIREMENT 5

An examination of sites A1, B1, C, D, and F reveals no apparent evidence of change or modification indicative of retrofit to new or modified systems. Two side by side angled roofed buildings have been constructed in a secured area adjacent to the support facility west of Complex D. Similar pairs of buildings have been identified at Complex C, and at the support facility located to the north in the rangehead road west of Complex D. Construction timing of these buildings is as follows:

Complex E
Complex C
Support Facility
West of E



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